

Reporting Title: Renal Function Panel, S**Performing Location:** Rochester**Necessary Information:**

Patient's age and sex are required.

Specimen Requirements:

Collection Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 0.6 mL

Collection Instructions:

1. Serum gel tubes should be centrifuged within 2 hours of collection.
2. Red-top tubes should be centrifuged and the serum aliquoted into a plastic vial within 2 hours of collection.

Specimen Minimum Volume:

0.5 mL

Forms:

If not ordering electronically, complete, print, and send a Renal Diagnostics Test Request (T830) with the specimen.

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated	24 hours	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
KS	Potassium, S Also used by tests: ELPSR, KS, NAKS	Numeric	mmol/L	2823-3
NAS	Sodium, S Also used by tests: ELPSR, NAKS, NAS	Numeric	mmol/L	2951-2
CL	Chloride, S Also used by tests: ELPSR, CL	Numeric	mmol/L	2075-0

Result ID	Reporting Name	Type	Unit	LOINC®
HCO3	Bicarbonate, S Also used by tests: HCO3, ELPSR	Numeric	mmol/L	1963-8
AGAP	Anion Gap Also used by tests: ELPSR	Numeric		33037-3
BUN	Bld Urea Nitrog (BUN), S Also used by tests: BUN	Numeric	mg/dL	3094-0
CRTSA	Creatinine, S Also used by tests: CRTS1	Numeric	mg/dL	2160-0
EGFR1	Estimated GFR (eGFR) Also used by tests: CRTS1	Numeric	mL/min/BSA	98979-8
CA	Calcium, Total, S Also used by tests: CA	Numeric	mg/dL	17861-6
GLURA	Glucose, Random, S Also used by tests: GLURA	Numeric	mg/dL	2345-7
ALB	Albumin, S Also used by tests: LIVPR, ALB	Numeric	g/dL	1751-7
PHOS	Phosphorus (Inorganic), S Also used by tests: PHOS	Numeric	mg/dL	2777-1

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
KS	Potassium, S			Yes	Yes
NAS	Sodium, S			Yes	Yes
CL	Chloride, S			Yes	Yes
HCO3	Bicarbonate, S			Yes	Yes

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
AGAP	Anion Gap			Yes	No
BUN	Bld Urea Nitrog (BUN), S			Yes	Yes
CRTS1	Creatinine with eGFR, S			Yes	Yes
CA	Calcium, Total, S			Yes	Yes
GLURA	Glucose, Random, S			Yes	Yes
ALB	Albumin, S			Yes	Yes
PHOS	Phosphorus (Inorganic), S			Yes	Yes

CPT Code Information:

KS: 84132
NAS: 84295
CL: 82435
HCO3: 82374
BUN: 84520
CRTS1: 82565
CA: 82310
GLURA: 82947
ALB: 82040
PHOS: 84100

Reference Values:**SODIUM**

<1 year: Not established
> or =1 year: 135-145 mmol/L

POTASSIUM

<1 year: Not established
> or =1 year: 3.6-5.2 mmol/L

CHLORIDE

<1 year: Not established
1-17 years: 102-112 mmol/L
> or =18 years: 98-107 mmol/L

BICARBONATE**Males**

<1 year: Not established
1-2 years: 17-25 mmol/L
3 years: 18-26 mmol/L
4-5 years: 19-27 mmol/L

6-7 years: 20-28 mmol/L
8-17 years: 21-29 mmol/L
> or =18 years: 22-29 mmol/L

Females

<1 year: Not established
1-3 years: 18-25 mmol/L
4-5 years: 19-26 mmol/L
6-7 years: 20-27 mmol/L
8-9 years: 21-28 mmol/L
> or =10 years: 22-29 mmol/L

ANION GAP

<7 years: Not established
> or =7 years: 7-15

BLOOD UREA NITROGEN (BUN)**Males**

<12 months: Not established
1-17 years: 7-20 mg/dL
> or =18 years: 8-24 mg/dL

Females

<12 months: Not established
1-17 years: 7-20 mg/dL
> or =18 years: 6-21 mg/dL

CREATININE**Males**

0-11 months: 0.17-0.42 mg/dL
1-5 years: 0.19-0.49 mg/dL
6-10 years: 0.26-0.61 mg/dL
11-14 years: 0.35-0.86 mg/dL
> or =15 years: 0.74-1.35 mg/dL

Females

0-11 months: 0.17-0.42 mg/dL
1-5 years: 0.19-0.49 mg/dL
6-10 years: 0.26-0.61 mg/dL
11-15 years: 0.35-0.86 mg/dL
> or =16 years: 0.59-1.04 mg/dL

ESTIMATED GLOMERULAR FILTRATION RATE (eGFR)

>= 18 years old: > or =60 mL/min/BSA (body surface area)

Estimated GFR calculated using the 2021 CKD-EPI creatinine equation.

Note: eGFR results will not be calculated for patients younger than 18 years old.

CALCIUM

<1 year: 8.7-11.0 mg/dL
1-17 years: 9.3-10.6 mg/dL

18-59 years: 8.6-10.0 mg/dL

60-90 years: 8.8-10.2 mg/dL

>90 years: 8.2-9.6 mg/dL

GLUCOSE

0-11 months: Not established

> or =1 year: 70-140 mg/dL

Total Protein

> or =1 year: 6.3-7.9 g/dL

Reference values have not been established for patients who are younger than 12 months of age.

ALBUMIN

> or =12 months: 3.5-5.0 g/dL

Reference values have not been established for patients who are younger than 12 months of age.

PHOSPHORUS

Males

1-4 years: 4.3-5.4 mg/dL

5-13 years: 3.7-5.4 mg/dL

14-15 years: 3.5-5.3 mg/dL

16-17 years: 3.1-4.7 mg/dL

> or =18 years: 2.5-4.5 mg/dL

Reference values have not been established for patients that are younger than 12 months of age.

Females

1-7 years: 4.3-5.4 mg/dL

8-13 years: 4.0-5.2 mg/dL

14-15 years: 3.5-4.9 mg/dL

16-17 years: 3.1-4.7 mg/dL

> or =18 years: 2.5-4.5 mg/dL

Reference values have not been established for patients that are younger than 12 months of age.